Appendix D
Framework Classification Code:
Field definitions and Valid Entries

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(MGF Version 15a)

Please Note: If you have any questions about the framework data you have received, please contact Josh Ross at the Center for Shared Solutions and Technology Partnerships.
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The Framework Classification Code (FCC) is a 3-character field in the framework coverage. The initial value in the FCC field is derived from data that is already associated with the feature. As additional editing takes place, the FCC value will be updated based on the definitions described in this document. New features added to framework will be given the appropriate FCC value based on these same definitions. New Classification Codes may also be created as needed.

A00 – Future road under construction

A1* – Limited access Interstates and non-Interstates (aka Freeways) such as I 75, I 94, US 27, M 39

>   **Valid Codes:**
>
>   **A11** – Limited access Interstate
>
>   **A12** – Limited access non-Interstate
>
>   **A13** – Ramp to or from a limited access highway
>
>   **A14** – Feature associated with rest areas, weigh stations and MDOT garages that are accessible only from A11 or A12 roads
>
>   **A15 –** Collector/Distributor. Specialized ramp like feature that distributes traffic within complex interchanges. Must connect at both ends with a main line (A11 or A12). Must intersect at least 2 ramps. IE: I 94 and I 69 interchange in Calhoun County near Marshall.
>
>   **A16 –** Restricted use turnaround in a limited access highway. Normally a feature crossing the median.

A2* – US Highways & State Highways such as M 52, US 12. (Not limited access)

>   **Valid Codes:**
>
>   **A21** – Unlimited access US Highways & State Highways
>
>   **A22** – Unsigned State Trunkline Highways
>
>   **A23** – Ramp to or from an unlimited access highway
>
>   **A24 –** Feature associated with non-limited access rest areas and roadside parks
>
>   **A25 –** State owned surface streets that act as service drives to limited access Freeways (A11 or A12)
>
>   **A26 –** State trunkline boulevard turnaround (Non-limited access)
>
>   **A29** – Unlimited access end of the ramp between the barrels of the boulevard.

A3* – These roads are classified based on **National Functional Classification (NFC)**. NFC is an attribute of the Framework coverage. The Michigan Department of Transportation assigned each NFC value. NFC is a planning tool which federal, state and local transportation agencies have used since the late 1960's. The Federal Highway Administration (FHWA) developed this system of classifying all streets, roads and highways according to their function. The FHWA publication, "Highway Functional Classification: Concepts, Criteria and Procedures", provides the basis for much of the following information.

Principal arterials are at the top of the NFC hierarchical system. Principal arterials generally carry long distance, through-travel movements. They also provide access to important traffic generators, such as major airports or regional shopping centers.

Minor arterials are similar in function to principal arterials, except they carry trips of shorter distance and to lesser traffic generators.

Collectors tend to provide more access to property than do arterials. Collectors also funnel traffic from residential or rural areas to arterials.

Valid Codes:

A31 - Principal Arterial roads (NFC other than 7)

A32 - Minor Arterial roads (NFC = 7)

A33 - Residential court or cul-de-sac

A4* - Non-Certified Roads – These are roads that have PR numbers.

Valid Codes:

A41 - General non-certified – The majority of non-certified roads fall into this category

A42 - Turnarounds – Feature that crosses a median. Normally used to facilitate a left-hand turn

A43 - Non-certified residential court or cul-de-sac

A44 - University owned roads

A45 – Forest roads within federal jurisdiction

A46 – Institutional roads within state jurisdiction

A47 – Roads to an airport

A48 – Roads to an airport

A6* - Roads with special characteristics, these roads may or may not have been updated in the current framework version.

Valid Codes:

A61 – Unnamed, non PR (Physical Road Number) roads within Cemeteries.

A62 – Unnamed, non PR internal drives around malls, commercial sites, retail sites, industrial sites, office sites, schools, colleges, and universities.

A63 – Unnamed, non PR driveways. A driveway is defined as a road that serves only one residence.

A64 – Internal roads of Federal, State and Local parks and campgrounds. These roads may have names and PRs

A65 – Unnamed, non PR roads in residential areas. IE: apartment complexes, mobile home communities, and new developments.

A66 – Unnamed, non PR two-track roads or vehicular trails.

A67 – Boating Access Site (BAS)

A68 – Indian Reservation Roads (IRR)

A69 – All other features that were originally classified as a road feature in TIGER or MIRIS but do not match any of the criteria used to classify framework roads. More research is needed to better classify these roads.

A7* - Non-vehicular transportation features: These features may or may not have been updated in the current framework version.

Valid Codes:

A70 – Approved U.S. Bicycle Routes

A71 - General Trails or Paths, these features may have multiple uses. IE: Biking, Hiking, Cross County Skiing, Horse, or Snowmobile

A72 - Rail-to-trail, these features may have names and PRs

A73 - Pedestrian overpasses, these features may have names and PRs

A75 – Transportation Structure, usually used to retain a structure identifier.

A76 - Trails or Paths within Federal Forest Jurisdiction, these features may have multiple uses. IE: Biking, Hiking, Cross Country Skiing, Horse, or Snowmobile.

A9* - Artificial road feature: These roads are not seen on a Digital Ortho Quad, but are needed to retain important attribute information.

Valid Codes:

A90 - Certified road right-of-ways. These roads are owned by a local jurisdiction (Act 51 certified), but are not drivable.

A91 - Road whose existence is strongly questioned, but have not been confirmed as not existing by a local jurisdiction.

A92 – Artificial roads that serve as control section or route break.

A93 – Artificial roads that serve as pseudo PR break.

A94 – Artificial roads that serve as PR break.

A95 – Administration only forest roads within Federal Jurisdiction which are also certified by Act 51.

RAILROADS - These features may or may not have been updated in the current framework version.

B1* - Active rail features.

>**Valid Codes:**
>
>**B11** – Main
>
>**B12** – Spur
>
>**B13** – Yard
>
>**B14** – Tunnel

B2* - Inactive rail features

>**Valid Codes:**
>
>**B20** – Inactive Rail

B3* - Double track rail features

>**Valid Codes:**
>
>**B32** - Active parallel mainline track where no pr is required.

HYDROGRAPHY - These features may or may not have been updated in the current framework version. The MIRIS LEVEL attribute value was given precedence over the TIGER classification and was used to classify hydrographic features where possible.

H1* - Great Lakes shoreline

>**Valid Codes:**
>
>**H11** – Great Lakes shoreline from MIRIS level 12.
>
>**H12** – Great Lakes shoreline river mouth. Any query to extract lake and river polygon shoreline features must include **H12** features.
>
>**H13** – Great Lakes connector (waterway under bridges along the GL shoreline).
>
>**H14** – Harbor / Marina - Inlet
>
>**H15** – Harbor / Marina – Mouth

H2* - Lake, Pond and Island shoreline.

>**Valid Codes:**
>
>**H21** – Lake and Pond shoreline from MIRIS level 6.
>
>**H22** – Sewage Disposal Pond as described on United State Geological Survey (USGS) Topographic Quadrangle maps.
>
>**H23** – Islands in inland lakes or ponds.
>
>**H24** – Intermittent lake or pond shoreline.
>
>**H25** – Tailings Ponds

H26 – Culvert between bodies of water

H3* - River/stream including islands in rivers.

    Valid Codes:

    H31 - Rivers and streams from MIRIS level 7.

    H32 – Two-banked streams

    H33 – Islands in rivers and streams.

    H34 – Islands that are both a river and land boundary

    H35 – Wisconsin bank of two-bank streams to close river polygons (i.e. – Menominee & Montreal Rivers)

H4* - Drains and intermittent streams.

    Valid Codes:

    H41 – Drains and intermittent streams from MIRIS level 8, undetermined ownership.

    H42 – County Owned Drains – open

    H43 – County Owned Drains – closed

    H44 – Inter-County Drains – open

    H47 – Two-Bank Drain - closed

H5* - Other Hydrologic Features.

    Valid Codes:

    H51 - Dam structures spanning a stream or river. If available, dam name will be in FENAME2. FENAME must be blank. Any query to extract lake and river polygon shoreline features must include **H51** features.

    H52 – Lock

    H53 – Levee

H6* - Swamps added as part of National Hydrographic Dataset (NHD).

    Valid Codes:

    H61 – Swamp polygons visible on digital ortho photos.

H9* - Artificial Water Boundaries

    Valid Codes:

    H90 – Artificial Hydrographic polygon closure. Feature exists to delineate water boundaries within a hydrological system. (I.e. arcs used to separate a river from a connected lake. FENAME must be blank.) Any query to extract lake and river polygon shoreline features must include **H90** features.

    H91 – Hydrographic connector. Used to represent stream flow where no feature is visible on DOQQ. Flow confirmed by referencing DRG.

H92 – Artificial Flow path. A feature within a hydro polygon that represents stream flow through the polygon. Follows most direct path between inlet and outlet.

H93 – Artificial Hydrographic polygon closure along state lines (IN, OH, WI).

NONVISIBLE BOUNDARIES - These features came from TIGER or were added by MCGI to delineate a boundary where no physical feature exists. These classifications have been assigned in a hierarchical fashion in order of importance. Even though a non-visible feature is associated with a certain type of polygon boundary, it may also represent additional types of polygon boundaries. To create polygons from the Framework, you must still use the appropriate fields for the theme you want to create. For example, to select the features that make up the City/Township boundaries, you would use the query; fmcdl <> fmcdr

F1* - Jurisdictional boundaries

    Valid Codes:

    F11 – Feature exists to delineate State boundary. Will also delineate other polygonal boundaries.

    F12 - Feature exists to delineate County boundary. Will also delineate other polygonal boundaries.

    F13 - Feature exists to delineate Minor Civil Division (MCD) (City/Township) boundary. Will also delineate other polygonal boundaries.

    F14 - Feature exists to delineate Village boundary. Will also delineate other polygonal boundaries.

    F15 - Feature exists to delineate Census Designated Place (CDP) boundary. May also delineate other polygonal boundaries.

F2* - School district boundaries

    Valid Codes:

    F20 – Feature exists to delineate Intermediate School District (ISD) boundary. May also delineate other polygonal boundaries.

    F21 - Feature exists to delineate School District boundary. May also delineate other polygonal boundaries.

F3* - Political boundaries

    Valid Codes:

    F31 - Feature exists to delineate United States Congressional boundary. May also delineate other polygonal boundaries.

    F32 - Feature exists to delineate State Senate boundary. May also delineate other polygonal boundaries.

    F33 - Feature exists to delineate State House boundary. May also delineate other polygonal boundaries.

F4* - Census boundaries

    Valid Codes:

    F42 - Feature exists to delineate 2000 Census Block Group boundary. May also delineate other polygonal boundaries.

    F44 - Feature exists to delineate Adjusted Census Urban Boundary. May also delineate other polygonal boundaries.

F45 - Feature exists to delineate 2010 Census Tract boundary. May also delineate other polygonal boundaries.

F46 - Feature exists to delineate 2010 Census Block Group boundary. May also delineate other polygonal boundaries.

F5* - Historical Boundaries

    Valid Codes:

    F51 –City / Village boundary involved in an Act 425 Annexations. The City / Village boundary may revert back to this location when the Act 425 expires.

F6* - Other

    Valid Codes:

    F99 – Non-visible boundary that does not represent a polygon feature listed above. This feature needs to be reviewed and either reclassified or deleted.